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November 6, 1985

Dr. Thomas E. Murley, Administrator
U. S. Nuclear Regulatory Commission
Office of Inspection and Enforcement
Region I
631 Park Avenue
King of Prussia, Pennsylvania 19406

Dear Dr. Murley:

SIGNIFICANT CONSTRUCTION DEFICIENCY
HEAT BUILD-UP IN EDG CABINETS
HOPE CREEK GENERATING STATION

On April 3, 1985, a verbal report was made to Region I, Office of Inspection and Enforcement representative, Mr. E. Kelly, advising of a significant construction deficiency concerning heat build-up inside the Generator Control Cabinets. On May 6, August 7, and September 13, 1985, interim reports were sent to your office. In conjunction with our September 13, 1985, letter, the following information is provided as our final report in accordance with 10CFR50.55(e).

Design Change Packages (DCP's) 570 and 7079 have been implemented on the Hope Creek Diesel Generators with the exception of one (1) replacement current transformer (CT) which was damaged during shipment. These DCP's provide for, respectively, replacement of the center CT's and increased and redirected airflow within the control panels.

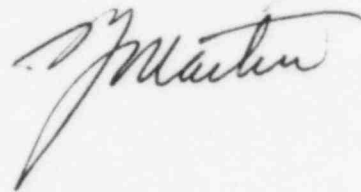
On October 30, 1985, the CT core temperatures in the B generator potential and excitation control panels were monitored and recorded during 13 continuous hours of operation. The loading on the generator was, approximately, 4400 KW, 700 amperes and 60 hertz.

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The temperatures were monitored and recorded utilizing a Molytek Chart Recorder, model #27025 (M&TE #HC-IC-T002) which was programmed to record the temperatures at 5 minute intervals. The core temperatures appeared to stabilize after 8.5 hours of equipment operation. The highest core temperature recorded during the next 4.5 hours was 78.2°C which is well below the 100°C threshold provided by the vendor.

Very truly yours,



C Office of Inspection and Enforcement
Division of Reactor Construction Inspection
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